Algebra

A rework

Structured by Artin, Emil

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ISBN:

DEDICATION

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In this 'rewrite,' I keep the outline structure of Artin's text. The topics touched on is the same. The content entirely different but for the examples, the theorems to which proofs are undertaken, and so forth.

The goal is taken as a heuristic exploration of an underlying mathematical artifact. A thing unknown. A thing that algebra hints at. A thing that is the quantum physics of the world. The form of the awareness-perception drive. And as yet, the details of the thing remains in an early stage of discovery to the author, the language will be symbolic, in the Hegelian sense. The Idea exists, the expression is not yet at the plane of the classical Greek art, for instance. It is primitive, as the squiggles and petroglyphs of the neanderthal, and which yet, as it is intended as an exploration of the plausible structure of the mathematical artifact underlying reality, and as the symbols of ancient man arose in early attempts to understand the world, offers a overlay of fantasy and feeling, into the structure of the mathematical world underneath world perception.

1 MATRICES

A matrix may be thought of as a processing structure. An operation on perception. Assume a n-vector. A vector in itself is a structure that exists, in the sense of a set of units processed. If a set of units, numbers, assume, and it is associated with an ordering, one may associate a scan of that ordering in the enumerative sense. An origin of the notion of spin, in the petroglyph idea sense. Directions are scanned, and to generate a unit, a unit intensity out of it, a product operation as the dot product is needed. For every perception there needs to be a single unit artifact that holds it. A unit artifact needs a intensity for it be available to perception. Thus, every vector needs its processing scan set, its conjugate to define its norm. The notion of norm, $v * v$, arises thus.

A matrix thus, is a set of vectors that process a vector perception. A transformation of a vector perception. I delve into a concrete example now.